

# SICK PSIRT

## Security Advisory

### Eclipse Cyclone DDS Vulnerabilities have no impact on SICK picoScan150 & SICK picoScan120 products

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Document ID:	SCA-2026-0004
Publication Date:	2026-02-13
CVE Identifiers:	CVE-2023-24011, CVE-2025-67109
Version:	1

### Summary

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Eclipse Cyclone DDS has known vulnerabilities and is used in SICK picoScan150 and SICK picoScan120 products starting with version 2.2.0. A current analysis confirms that the identified vulnerabilities (CVE-2025-67109 and CVE-2023-24011) do not affect SICK picoScan150 and SICK picoScan120. Both vulnerabilities relate exclusively to certificate-based security features of ROS 2 / DDS, which are not supported on SICK picoScan150 and SICK picoScan120 devices and cannot be enabled by customers. At this time, there is no indication of any potential risk to SICK picoScan150 and SICK picoScan120 related to these two vulnerabilities.

## List of Products

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Product	Part Number	Affected by
<b>SICK picoScan120 with firmware &gt;=2.2.0</b>	1141751	<a href="#">CVE-2023-24011</a> Status: Known Not Affected Remediation: -
		<a href="#">CVE-2025-67109</a> Status: Known Not Affected Remediation: -
<b>SICK picoScan150 with firmware &gt;=2.2.0</b>	1134607	<a href="#">CVE-2023-24011</a> Status: Known Not Affected Remediation: -
	1134608	
1134609		
1134610		
1141395		
1141396		
1141397		
1142269		
1142270		
1142272		
1142273		
		<a href="#">CVE-2025-67109</a> Status: Known Not Affected Remediation: -

## Vulnerability Overview

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### CVE-2023-24011 Exposure of Sensitive Information to an Unauthorized Actor

**Summary:** An attacker can arbitrarily craft malicious DDS Participants (or ROS 2 Nodes) with valid certificates to compromise and get full control of the attacked secure DDS databus system by exploiting vulnerable attributes in the configuration of PKCS#7 certificate's validation. This is caused by a non-compliant implementation of permission document verification used by some DDS vendors. Specifically, an improper use of the OpenSSL PKCS7\_verify function used to validate S/MIME signatures.

**CVE-2023-24011** has been assigned to this vulnerability.

CVSSv3.1 base score: 8.2

CVSSv3.1 vector string: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:L

CWE identifier: CWE-200 (Exposure of Sensitive Information to an Unauthorized Actor)

## CVE-2025-67109 Improper Validation of Certificate Expiration

**Summary:** Improper verification of the time certificate in Eclipse Cyclone DDS before v0.10.5 allows attackers to bypass certificate checks and execute commands with System privileges.

**CVE-2025-67109** has been assigned to this vulnerability.

CVSSv3.1 base score: 10

CVSSv3.1 vector string: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H

CWE identifier: CWE-298 (Improper Validation of Certificate Expiration)

## General Security Practices

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### General Security Measures

As general security measures, SICK recommends to minimize network exposure of the devices, restrict network access and follow recommended security practices in order to run the devices in a protected IT environment.

### Vulnerability Classification

SICK performs vulnerability classification by using the CVSS scoring system (CVSS v3.1). The environmental score is dependent on the customer's environment and can affect the overall CVSS score. SICK recommends that customers individually evaluate the environmental score to achieve final scoring.

## Resources

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SICK PSIRT Security Advisories:

<https://www.sick.com/psirt>

SICK Operating Guidelines:

[https://www.sick.com/media/docs/9/19/719/special\\_information\\_sick\\_operating\\_guidelines\\_cybersecurity\\_by\\_sick\\_en\\_im0106719.pdf](https://www.sick.com/media/docs/9/19/719/special_information_sick_operating_guidelines_cybersecurity_by_sick_en_im0106719.pdf)

ICS-CERT recommended practices on Industrial Security:

<https://www.cisa.gov/resources-tools/resources/ics-recommended-practices>

CVSS v3.1 Calculator:

<https://www.first.org/cvss/calculator/3.1>



Sensor Intelligence.

**TLP:WHITE**

## History

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Version	Release Date	Comment
1	2026-02-13	Initial version

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